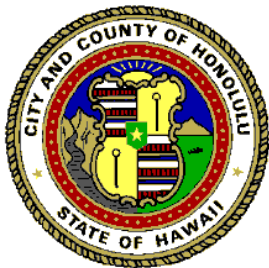


Rules Relating to Water Quality for CCH Employees

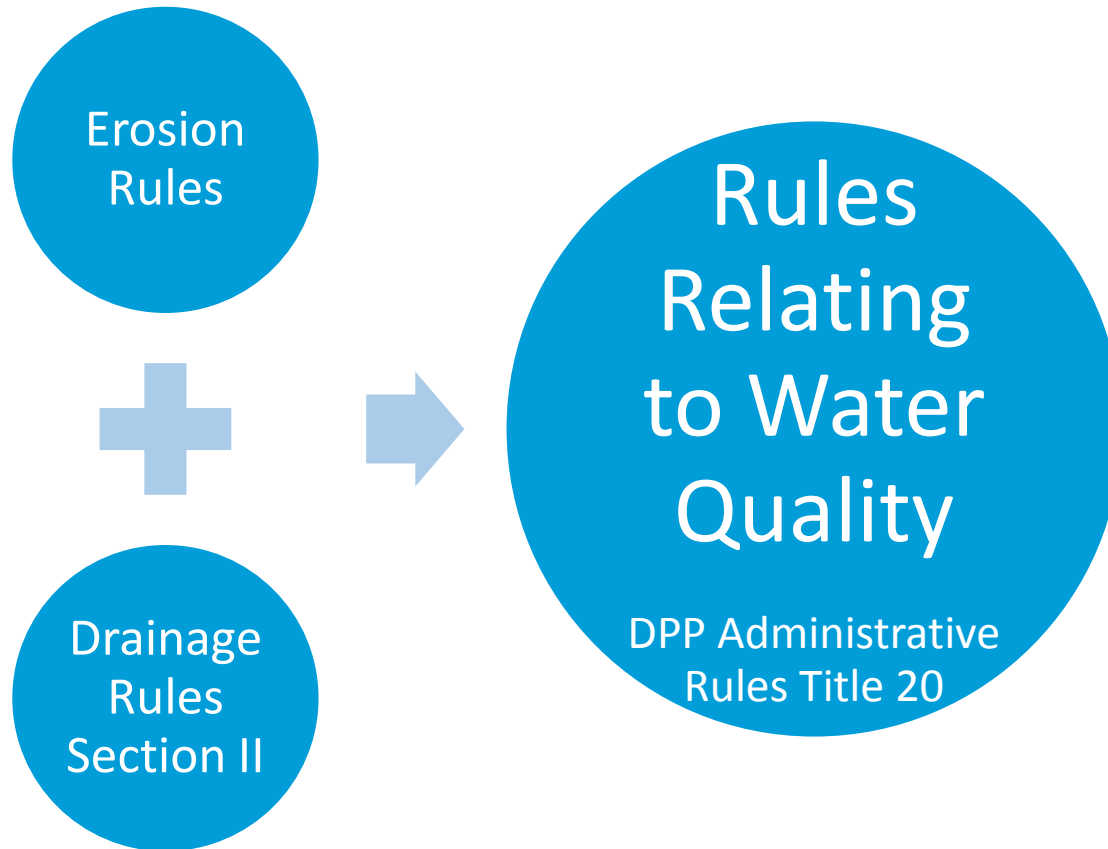
Department of Planning and Permitting



June 2017



One DPP Rule for Water Quality



Flood control requirements will remain separate



Definitions Revised (§20-3-3)

Key Definitions:

- “Development”
- “Redevelopment”
- “ESCP Coordinator”
- “Certified Water Pollution Plan Preparer”
- “Disturbed Area”
- “Land Disturbing Activity”
- “Director”
- “Maximum Extent Practicable”



Development

- “Development” means the sum of any and all actions that are undertaken to alter the natural or existing condition of real property or improvements on real property if a building, electric, grading, grubbing, plumbing, stockpiling, or trenching permit is required for the Project. Development also includes Redevelopment and changes in land use that may result in different or increased Pollutant discharges to the MS4 or Receiving Waters. **Development does not include work that does not involve any Land Disturbing Activity, the installation of signs and traffic control devices, the construction of individual bus shelters, the installation of temporary BMPs, emergency work necessary to repair surfaces that are in immediate need of stabilization, the marking of improved surfaces with striping or signage, residential fence post installation, and minor and ordinary repairs to existing improvements, provided that the work will not increase the impervious surface area of the Project Site or involve replacing 50 percent or more of the on-Site impervious surfaces area.**



Redevelopment

- “Redevelopment” means the **creation, addition, and/or replacement** of impervious surface on improved real property. Redevelopment does not include trenching and resurfacing associated with utility work, resurfacing and reconfiguring existing impervious surfaces, the repair of sidewalks or pedestrian ramps, pothole repair, ordinary road maintenance, or the marking of vehicular or pedestrian lanes on existing roads.



Erosion and Sediment Control Plan Coordinator

- “ESCP Coordinator” means the designee **responsible for the implementation of an ESCP who has a current ESCP coordinator certificate from the Department.** The designation of an ESCP Coordinator does not relieve the property owner or other responsible parties from compliance with these Rules or liability for violations of the same.
- Requires a training, test, and certification from DPP.
- No professional credentials required.
- Responsible for implementation of BMPs and inspections.



Certified Water Pollution Plan Preparer

- “Certified Water Pollution Plan Preparer” means an **Architect, Engineer, Land Surveyor, or Landscape Architect licensed in the State of Hawaii** who has a current **Water Pollution Plan Preparer Certificate** from the Department.
- Requires a training, test, and certification from DPP.
- Required to prepare Storm Water Quality Report/Checklist.
- Required to certify that post-construction BMPs are installed properly.



Disturbed Area

- “Disturbed Area” means **any and all portions of Project Site affected by Land Disturbing Activities**. Disturbed Areas include, but are not limited to, soils and surface areas affected by excavation, areas that are graded, grubbed, or clearing by uprooting vegetation, areas affected by the demolition of foundations, **areas used for equipment staging, materials, or staging, and areas affected by heavy pedestrian or vehicular traffic that disrupts ground covers or surface soil conditions**.
- Staging areas are not included in Post-Construction LID size threshold.



Land Disturbing Activity

- “Land disturbing activity” or “land disturbance” means any action, activity, or land use that alters the integrity, structure, texture, density, permeability, contents, or stress conditions of soil or ground surfaces if a building, electric, grading, grubbing, plumbing, stockpiling or trenching permit is required for the Project. Land disturbing activities include, but are not limited to actions that result in the turning, penetration, or moving of soil, the resurfacing of pavement that involves the **exposure of the base course or subsurface soils, and the use of portions of a Project Site as staging areas or base yards.**



Director

- “Director” means the director of the City and County of Honolulu Department of Planning and Permitting **or the Director’s authorized agent or representative.**



Maximum Extent Practicable

- “Maximum Extent Practicable” or “MEP” means economically **achievable measures** that prevent or reduce the addition of Pollutants to the environment to the greatest degree achievable through the application of the best available pollution control practices, technologies, processes, siting criteria, operating methods and other alternatives.



Variances (§20-3-64)

- For deviations from the Rules, applicants must submit a petition for variance to the director and may be authorized if all of the following are true:
 - The variance is necessary to **prevent a hardship** caused by unique Site conditions on the property that are not ordinarily found in other areas within the City;
 - The **unique conditions** on the property are **not the result of petitioner's own actions** or the actions of his/her agents, contractors, consultants, or tenants;
 - Granting a variance **will not adversely affect the rights of abutting property owners**;
 - The variance requested **will not result in an unreasonable threat of Pollutant discharges** to the MS4 or State Waters; and
 - The variance requested is the **minimum accommodation needed** to overcome the hardship caused by naturally occurring conditions on the property.



CONSTRUCTION REQUIREMENTS

Plan Review and Implementation of BMPs before and during Construction



Major Revisions from 1999 Rules Relating to Soil Erosion Standards

- Revisions to Definitions and Project Categories
- Removed Soil Loss Calculations requirements
- No minimum BMP checklists
- Updated minimum BMPs
- Updated BMP standards
- ALL categories must submit Erosion and Sediment Control Plan (ESCP)
 - ESCP templates for small projects
- Applicants must designate an ESCP coordinator to implement the ESCP and perform inspections
- New requirements for Self-Inspection



Project Categories (§20-3-14 and 17)

Trenching Permits

New Category

Trenching Permit

Development that requires a trenching permit but **does not** require a grading, grubbing, or stockpiling permit.

- ESCP shall be incorporated into trenching plan and notes (§20-3-17).

Minimum BMPs required:

- Project Scheduling;
- Storm Drain Inlet Protection for storm drains that may receive runoff from the Disturbed Area;
- Stockpile Management BMPs;
- Perimeter Controls;
- Dewatering Operations BMPs; and
- Good Housekeeping Practices for work area and staging areas.



Project Categories (§20-3-14)

Building Permits

Category 1: Development that requires a building permit but does not require a grading, grubbing, or stockpiling permit.

Category 1A

Must meet ALL of the following criteria:

1. Residential single-family or two-family detached residential Development;
2. The total Disturbed Area for the Project is less than 1,000 square feet; and
3. Land Disturbing activities will not occur on slopes equal to or greater than 15 percent at the Site.

Category 1B

Must meet ANY of the following criteria:

1. Commercial Development with less than one acre of Disturbed Area;
2. Residential single-family and two-family detached Development between 1,000 square feet and less than one acre of Disturbed Area; or
3. Residential single-family and two-family detached Development less than 1,000 square feet of Disturbed Area if work will be performed on slopes equal to or greater than 15 percent at the Site.

Category 1C

Development that involves a Disturbed Area of one acre or more or requires a NPDES General/Individual Permit Authorizing Discharges of Storm Water Associated with Construction Activity, issued by the DOH.




ESCP Requirements for SMALL PROJECTS

Category 1A and 1B (§20-3-18 and 19)

- Submit Small Project ESCP Template (Appendix A or B)
 - Submit additional information if needed
- ESCP must include:
 - BMP Site Plan
 - Outline of buildings and structures
 - Clear delineation of disturbed areas
 - Proximate location of proposed BMPs and drainage structures
 - Receiving waters located within 50 feet of the project site
- Minimum BMPs, checklist format

Appendix A

 City and County of Honolulu

Erosion and Sediment Control Plan
Category 1A Template

Construction Site Project Name: _____

Physical Site Address: _____

Erosion and Sediment Control Coordinator: _____ Phone Number: _____

Building Permit Number: _____

Instructions:

This completed template is to be used as the Erosion and Sediment Control Plan (ESCP) for projects which fall under the City and County of Honolulu, Department of Planning and Permitting (DPP) Category 1A: Single-family or Two-family detached residential building projects that disturb less than 1,000 square feet of land and where there will not be land disturbing activities on slopes greater than 15%.

This ESCP must be submitted as part of the Building Permit application and made available on the job site at all times. This ESCP may be prepared by the owner of the project or an authorized representative designated by the owner. Both individuals must certify this ESCP below.

Read through the instructions for each of the three (3) sections on the next pages: I. Erosion Prevention, II. Sediment Control, and III. Good Housekeeping. Any best management practices (BMP) boxes that are checked are mandatory during construction. For more information on each type of BMP, this template lists applicable fact sheet numbers from the City's Construction BMP Manual that may help you decide on which BMP type to use and how to use them. The manual is available on the DPP website (www.honolulu.gov/dpp). For any conflicting information between the Rules Relating to Water Quality and the Construction BMP Manual, the requirements of the Rules shall be followed. If other BMPs not listed are used to achieve the same or similar results, attach additional documentation.

I. EROSION PREVENTION: practices that prevent erosion from occurring		
BMP	Check Appropriate Box	Reference Factsheet
1. Project Scheduling Notify the DPP two (2) weeks prior to starting work. Attach a Project Schedule to this ESCP including dates when BMPs will be installed, when land disturbing activities will begin and end, and dates when BMPs will be removed.	<input type="checkbox"/> Applicable <input type="checkbox"/> Not Applicable	EC-1
2. Permanent Stabilization Prior to final approval and closing of the permits for work on the project site, permanent stabilization must be in place.	<input type="checkbox"/> Applicable <input type="checkbox"/> Not Applicable	N/A

II. SEDIMENT CONTROL: practices to prevent soil and sediment from leaving the project site and entering storm drains during rain events		
BMP	Check Appropriate Box	Reference Factsheet
1. Perimeter Controls Sediment fences or barriers shall be used at the perimeter of all disturbed areas if there is the potential for runoff to flow off the project site, and around the base of all material stockpiles. These may include gravel bags, sand bags, fiber rolls, silt fences, or compost socks that intercept runoff.	<input type="checkbox"/> Applicable <input type="checkbox"/> Not Applicable	SE-1, SE-3, SE-4, SE-8, SE-16
2. Storm Drain Inlet Protection Inlet protection is required over storm drains within 50 feet of your project site unless those inlets drain to a sediment basin or trap.	<input type="checkbox"/> Applicable <input type="checkbox"/> Not Applicable	SE-10

Rev: 03/19/2017 Page 1 of 3



Project Categories (§20-3-14)

Grading, Grubbing, and Stockpiling Permits

Category 2	Area of the zoning lot or portion thereof subject to the permit is less than 15,000 square feet for single-family or two-family dwelling uses and less than 7,500 square feet for other uses.
Category 3	Area of the zoning lot or portion thereof subject to the permit is 15,000 square feet or more for single-family or two-family dwelling uses, or 7,500 square feet or more for other uses, but where the total area graded or stockpiled upon is less than 15,000 square feet for single-family or two-family dwellings uses and less than 7,500 square feet for other uses.
Category 4	Total area including any areas developed incrementally that is to be graded, grubbed, or stockpiled upon is 15,000 square feet or more for single-family or two-family dwelling uses, or 7,500 square feet or more for other uses, or in the event a proposed cut or fill is greater than 15 feet in height for single-family or two-family dwelling uses, or 7.5 feet in height for other uses.
Category 5	Development that involves a Disturbed Area of one acre or more or requires a NPDES General/Individual Permit Authorizing Discharges of Storm Water Associated with Construction Activity, issued by the DOH.



ESCP Requirements for Category 2 and 3 (§20-3-21 and 22)

- ESCP must include:
 - A BMP Site Plan, drawn to scale, which depicts:
 - Outline of buildings and structures,
 - Clear delineation of Disturbed Areas, and
 - Proximate location of proposed BMPs.
 - Construction notes with a narrative description of any BMPs that cannot be shown on a Site plan; and
 - A vicinity map showing any drainage structures and Receiving Waters located within 50 feet of the Project Site.



ESCP Requirements For Category 1C, 4, and 5 (§20-3-20, 23, and 24)

- The ESCP must include:
 - A location map showing the name, coordinate, and RW classification.
 - A vicinity map showing the location of, within 100 ft of the project:
 - Streams, channels, and drainage structures.
 - The location of the 100-year flood plain.
 - Topo maps of the existing/finished contours.
 - Existing/final drainage patterns and discharge points.
 - Proposed structures, impervious areas, existing vegetation, final landscaping conditions, and appurtenant improvements.
 - Erosion Control construction notes include BMPs that cannot be shown on a Site Plan.
- A BMP Site Plan, drawn to scale, showing:
 - Outline of buildings and structures,
 - Delineation of Disturbed Areas, and
 - Proximate location of proposed BMPs.
- BMP design details and notes identifying:
 - Temporary and Permanent BMPs,
 - Schedule for BMP implementation, and
 - BMP maintenance activities.
- A list or table of:
 - Preconstruction, during construction, and post-construction BMPs;
- A statement in construction notes that the contractor/developer/ owner shall obtain written approval from DPP at each stage of Development before proceeding to the next step in Development described in the ESCP.



ESCP Submittal Requirements for Plan Approval (Subchapter 4)

ESCP must be prepared by:	Project Category					
	1A	1B	2	3	4	1C+ 5
Licensed Civil Engineer				X	X	X
Owner or Agent	X	X	X			

- ESCP must be submitted with the first set of plans
- All ESCP must indicate a ESCP Coordinator
 - Name, phone number, mailing address and email address of ESCP coordinator must be provided to DPP 2 weeks prior to commencing any work



Minimize Erosion Control BMPs (§20-3-18 through 24)

Minimum BMP	Project Category					
	1A	1B	2	3	4	1C + 5
Project Planning and Design	X	X	X	X	X	X
Project Scheduling	X	X	X	X	X	X
Slope Management and Protection		X	X	X	X	X
Temporary Stabilization		X	X	X	X	X
Permanent Stabilization	X	X	X	X	X	X
Velocity Dissipation Devices				X	X	X
Diversion BMPs					X	X
Preserve Existing Vegetation						X
Minimize Soil Compaction						X



Minimum Sediment Control BMPs (§20-3-18 through 24)

Minimum BMP	Project Category						
	1A	1B	2	3	4	1C	5
Storm Drain Inlet Protection	X	X	X	X	X	X	X
Perimeter Controls	X	X	X	X	X	X	X
Buffer Zones						X	X
Sediment Traps (between 1 to 5 acres)							X
Sediment Basins (5 acres and greater)							X



Minimum Good Housekeeping BMPs (§20-3-18 through 24)

Minimum BMP	Project Category					
	1A	1B	2	3	4	1C + 5
BMP and Site Maintenance	X	X	X	X	X	X
Dust Control	X	X	X	X	X	X
Material Delivery, Storage, and Use BMPs	X	X	X	X	X	X
Stockpile Management BMPs	X	X	X	X	X	X
Spill Prevention and Control BMPs	X	X	X	X	X	X
Solid Waste Management BMPs	X	X	X	X	X	X
Hazardous Waste Management BMPs	X	X	X	X	X	X
Contaminated Soil Management BMPs	X	X	X	X	X	X
Concrete Waste Management BMPs	X	X	X	X	X	X
Sanitary/ Septic Waste Management BMPs	X	X	X	X	X	X
Liquid Waste Management BMPs	X	X	X	X	X	X
Vehicle and Equipment Cleaning BMPs	X	X	X	X	X	X
Vehicle and Equipment Fueling BMPs	X	X	X	X	X	X
Tracking Control	X	X	X	X	X	X
Stabilized Construction Entrance and Exit				X	X	X
Dewatering Operations				X	X	X



Project Scheduling

- Project schedules must establish:
 - A sequence of all planned actions and activities including, but not limited to:
 - All land disturbing activities,
 - Implementation of the BMPs,
 - Scheduled inspections and maintenance of BMPs, and
 - Removal of temporary BMPs.
 - Deadlines for the implementation/removal of BMPs shall be provided as specific dates or Project milestones.
 - **A rain response plan**
 - Identifies work that will not be performed during defined rain conditions and/or events.
- Submit scheduled start date to the Director in writing two (2) weeks prior to commencing work
- Project schedules must be revised if delays or disruptions to the Project necessitate changes to the sequence of work or BMPs.
 - Revisions must be submitted to DPP and approved by the Director before work may be performed pursuant to the revised schedule.
- A copy of the original Project schedule and all revised schedules must be kept in the Project Log in chronological order.



Additional Requirements for Development Projects (§20-3-25)

- Projects may also need NPDES permits from the Department of Health
 - Form C: Construction > 1 acre
 - Form F: Hydrotesting
 - Form G: Dewatering



INSPECTIONS



Construction Inspections

New Inspection checklists for:

- Self-Inspections
- City Inspections
- Third-Party Inspections
- Frequencies based on Various Risk Criteria
 - Size
 - Slope
 - Distance to a water body



Private Projects BMP Inspection (§20-3-26)

- Inspections must be performed by the ESCP Coordinator
- Pre-construction inspection required for all projects
- Regular Inspections:

Project Category	Frequency of Inspection	WQR Checklist
Category 1A, 1B, & 2	Once every 30 days*	Appendix C
Category 3, 4, & Trenching	Once every 7 days	Appendix C
Category 1C & 5	Once Every 7 days	Appendix D

* if the Project will be completed in less than 30 days, inspection shall occur midway through the Project



CIP Projects: City Inspection Frequency (not in WQR)

Project Type	Proposed Frequency of Inspection
Regulated Project*	Weekly , or as-needed to ensure compliance with ESCP, NPDES General/Individual Permit(s), and City ordinances
Non-Regulated Project	Weekly , or as-needed to ensure compliance with ESCP, Minimum BMP Checklist, and City ordinances.

- Each Type has its own inspection checklist
- * Regulated Projects must also conduct an inspection within 24 hrs of a storm event.
 - General Construction Permit - Storm event is considered 0.25 inches or greater
 - Individual Permit - check permit, typically 0.5 inches or greater



Third Party Oversight Inspection (not in WQR)

Part D.1.5.(iii) 3rd Party Oversight Inspections

“Develop and implement an effective inspection oversight program for both public and private construction projects throughout the entire construction process until final completion of the project. Due to a high degree of variability among site conditions and oversight by the City, the Permittee shall use **dedicated erosion and sediment control or storm water inspectors who is independent** (i.e., not involved in the day-to-day planning, design, or implementation) of the construction projects to be inspected to **conduct, at a minimum, monthly oversight inspections of all applicable construction projects** within the City’s jurisdiction.”



POST-CONSTRUCTION

Post-Construction BMPs and Low Impact Development



Major Revisions from 2012

Rules Relating to Storm Drainage Standards

- Revised List of Priority Projects
- Mandatory implementation of LID for priority projects and revised infeasibility criteria
- Revised Storm Water Quality Report and Operations and Maintenance requirements
- 1.5x Water Quality Volume and Flow Rate for Treat and Release BMPs
- Post-Construction Certification and Recording



Priority Projects Definitions (§20-3-48)

Priority A	Priority B	
All new development and redevelopment, including any incremental development, that proposes land disturbing activities of 1 acre or more .	<p>Any project that may have significant water quality impacts due to its location or associated land use activities, including but not limited to the development or redevelopment of:</p> <ul style="list-style-type: none"> • Retail gas outlets • Automotive repair shops • Restaurants • Parking lots with 20 stalls or more • Buildings greater than 100 feet in height • Retail malls • Industrial parks 	
	Priority B1: Projects with 5,000 square feet of impervious surface area or greater	Priority B2: Projects with less than 5,000 square feet of impervious surface area



Fifty Percent Rule for Redevelopment (§20-3-48 (b) and (c))

Where the impervious surface of a previously developed Site will be altered by:

50% or more

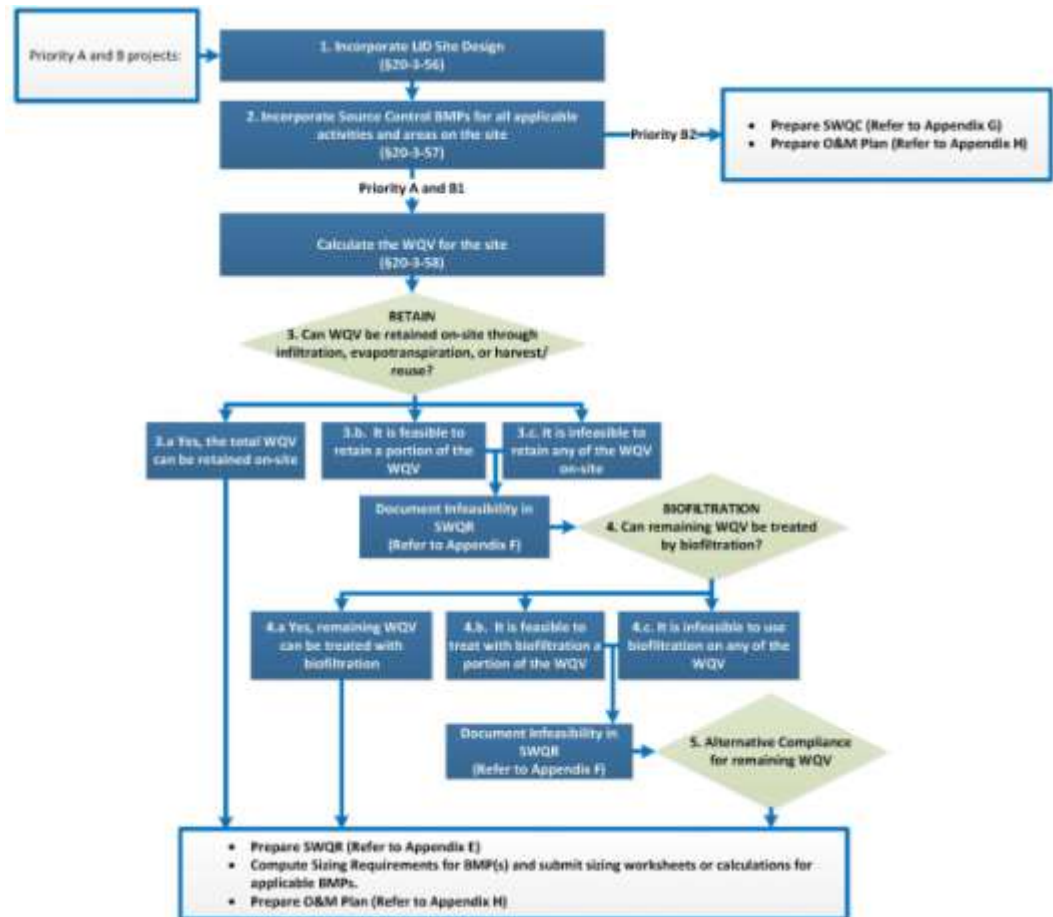
- the entire Development Site must meet WQR requirements

Less than 50%

- only the proposed alteration must meet WQR requirements

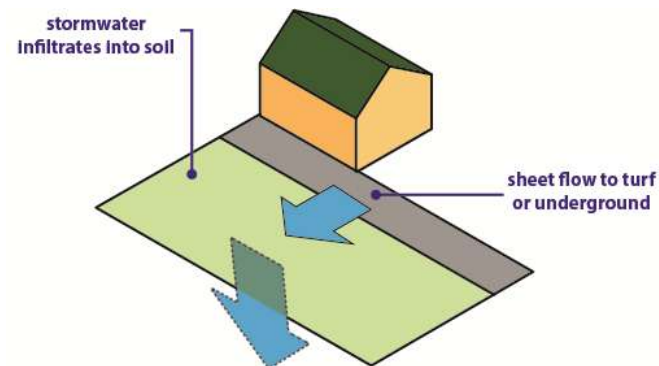
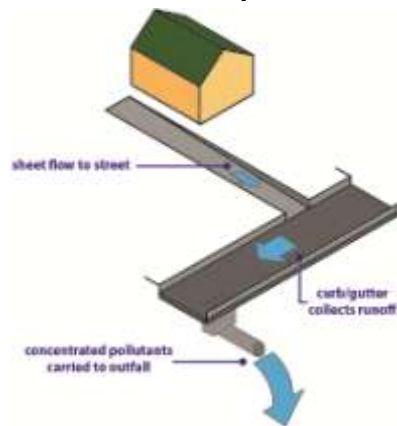


Post-Construction Storm Water Requirements (§20-3-49)



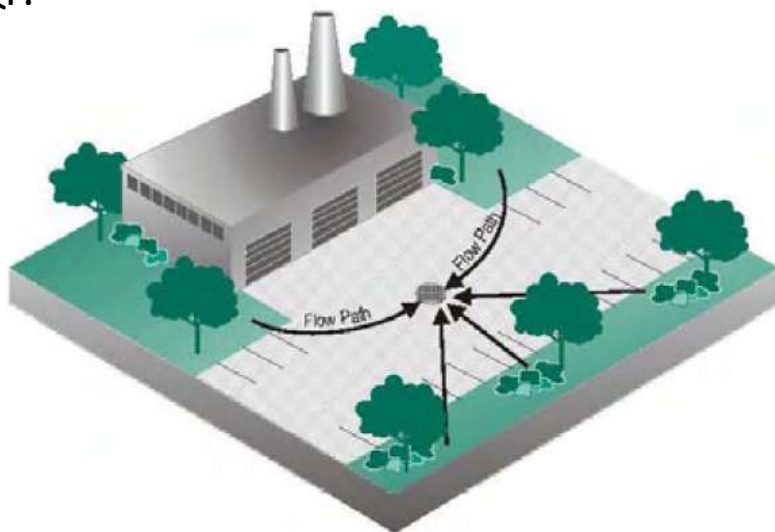
Site Design Strategies (§20-3-56)

- Conserve natural areas, soils, and vegetation.
- Minimize disturbances to natural drainages.
- Minimize soil compaction.
- Direct Runoff to Landscaped Areas and Reduce directly connected impervious areas (DCIA).
- Minimize Impervious Surfaces.

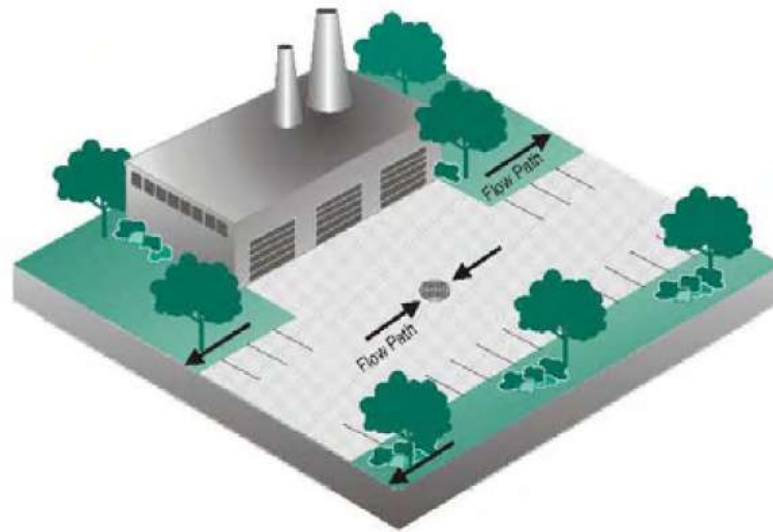


Self-Mitigating Areas (§20-3-56(b))

Self-mitigating areas consist of natural or landscaped area, which retain and/or treat rainfall over the footprint of the self-mitigating area but do not accept runoff from other areas. Self-mitigating areas may drain directly to the MS4 or other off-site drainage without further treatment and can be excluded in calculation of the WQV or WQF.



Conventional Drainage Approach

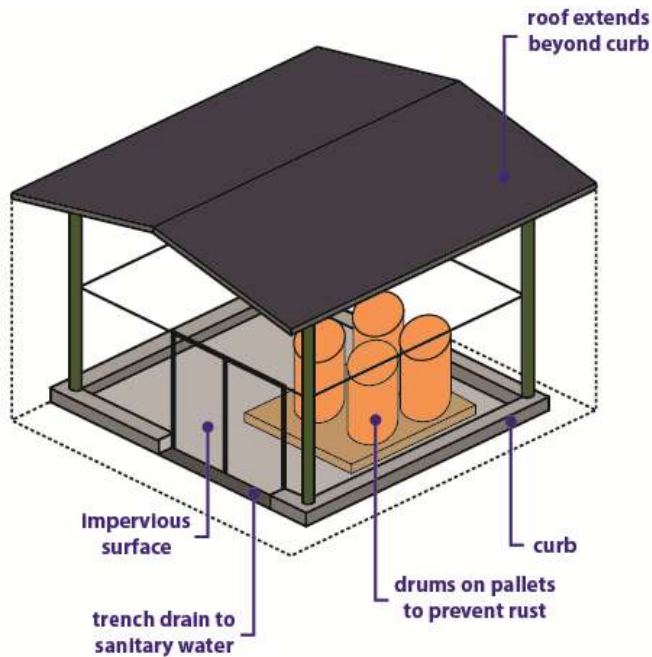


With Self-Mitigating Approach



Source Control BMPs (§20-3-57)

- Prevent storm water from contacting work areas.
- Prevent pollutants from contacting surfaces that come into contact with storm water runoff.



REQUIRED FOR:

- Landscaped areas
- Automatic irrigation systems
- Storm drain inlets
- Loading docks
- Parking areas
- Vehicle/equipment repair
- Vehicle/equipment fueling
- Vehicle/equipment washing/cleaning
- Residential vehicle washing for condominium and apartment buildings
- Outdoor trash storage
- Outdoor material storage
- Outdoor work areas
- Outdoor process equipment operations



Treatment Control BMPs (§20-3-58)

	Retention	Biofiltration	Alternative Compliance
Infiltration Basin	•		
Infiltration Trench	•		
Subsurface Infiltration ¹	•		
Dry Well	•		
Bioretention Basin	•		
Permeable Pavement	•		
Harvesting / Reuse	•		
Green Roof		•	
Vegetated Bio-Filter ¹		•	
Enhanced Swale		•	
Vegetated Swale		•	
Vegetated Buffer Strip		•	
Detention Basin			•
Manufactured Treatment Device			•
Sand Filter			•

¹ Includes proprietary systems



Post-Construction Submittal Requirements


- Priority A projects must submit Storm Water Strategic Plan With Master Development Plan (§20-3-50)
- Priority A and B1 projects will be required to submit a Storm Water Quality Report (§20-3-51)
 - Includes:
 - Discussion on Pollutants of Concern and how addressed
 - Sizing Calculations/Worksheets
 - Feasibility screening worksheet
 - Infiltration Testing Results
 - Operations and Maintenance Plan
- Priority B2 projects must submit a Storm Water Quality Checklist (§20-3-52)
 - Documents Site Design and Source Control BMPs



Post-Construction Certification and Recording (§20-3-54)

- Construction of permanent BMPs must be inspected and certified by a CWPPP retained by the owner/developer (does not need to be the same CWPPP as the Designer).
- Use Appendix I of the WQR.
- Approved Post Construction Record Drawings and O&M Plan must be recorded at the Bureau of Conveyances or Land Court with property deed.

Appendix I



City and County of Honolulu

Certificate of Completion Form

This form must be signed by a Certified Water Pollution Plan Preparer prior to closing the building and/or grading permit. Record Drawing, tracings, and a Post-Construction Best Management Practice (BMP) Report must also be submitted and shall include photographic evidence, visual observation, maps and test data to confirm the installation of all required BMPs.

The Certified Water Pollution Plan Preparer must conduct at least two (2) site observation(s) to attest that post construction BMPs and source control BMPs appear to have been installed in general conformance according to the approved construction plans. Contact the Department of Facility Maintenance and Department and Planning and Permitting in the event that the approved post-construction BMPs cannot be built according to plan. Failure to do so may delay permit closure.

Project Name:	
Project Address:	
Tax Map Key(s):	
Building Permit No.:	Grading Permit No.:
Source Control BMPs (description):	
Treatment Control BMPs (description):	

I declare that the following statements are true to the best of my knowledge:

1. I am the Certified Water Pollution Plan Preparer responsible for observing the source control and treatment control BMPs at this project at appropriate intervals to attest that the BMPs appear to have been installed in general conformance with the approved construction plans.
2. I have performed at least two (2) site observations for this project to attest that the source control and treatment control BMPs were installed in general conformance with the approved construction plan at the date and time noted in the attached report unless otherwise noted.
3. Based on my site observations of the source control and treatment control BMPs, I hereby certify that the BMPs for this project appear to have been installed in general conformance with the approved construction plans.

Certified is defined as a licensed professional's opinion based on observation of conditions, knowledge, information and beliefs. It is expressly understood that the Certified Water Pollution Plan Preparer's certification of a condition's existence relieves no other party of any responsibility or obligation he or she has accepted by contract or custom.

Rev. 06/11/2017



CCH RESOURCES

BMP Plan Templates

Construction BMP Manual

Plan Review Checklist



CCH Resources Online

www.cleanwaterhonolulu.com

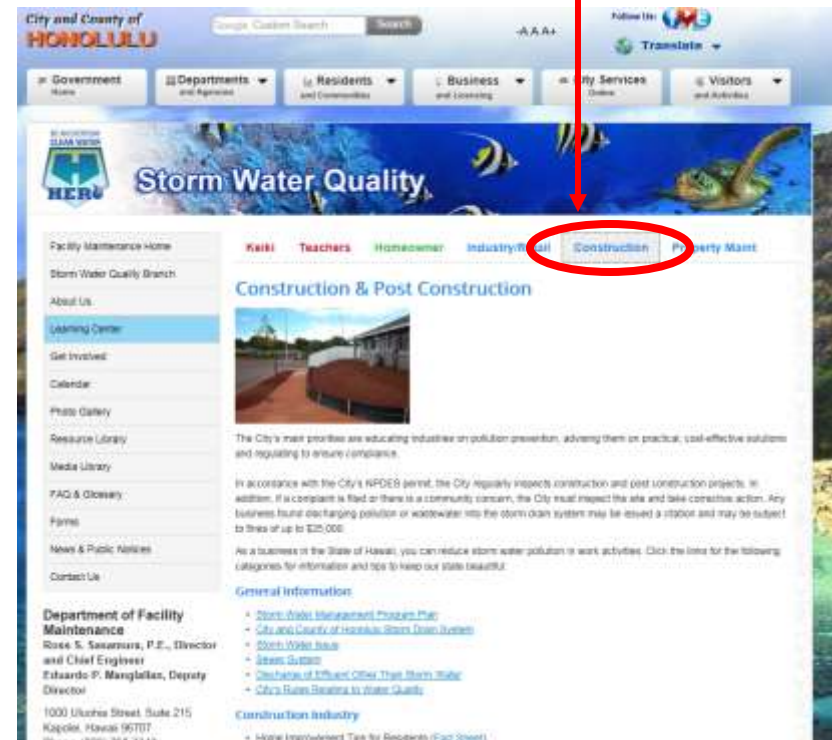
Step 1



Click on
Learning
Center


Step 2

Click on
Construction Tab




Storm Water Pollution Prevention Plan (SWPPP) Template for Public Projects

- For NPDES permitted projects to comply with HAR 11-55 Appendix C and applicable CCH requirements.
- Attachments and BMPs should be edited as needed.
- Goal is a City-wide template for contractor compliance & Streamlined review for CCH.



**STORM WATER POLLUTION PREVENTION PLAN
(SWPPP) TEMPLATE**

Project Title: _____
Project No.: _____
Department/ Division: _____



Prepared by: _____
SWPPP Preparation Date: _____
Revision Date: _____




Site-Specific Construction BMP (SSCBMP) Plan Template for Public Projects

For smaller projects that do not require an NPDES permit from the State


Contents:

1. Project Information
2. Description of Construction Activities
3. Required Permits
4. Identification of Prime Contractor and Other Site Contractors
5. Sequence and Estimated Dates of Construction Activities
6. BMP Site Plan (Drawing and Notes)
7. Storm Water Management Practices
8. Inspections and Corrective Actions



**SITE-SPECIFIC CONSTRUCTION BEST
MANAGEMENT PRACTICES PLAN (SSCBMP)
TEMPLATE**

Project Title: _____
Project No.: _____
Department/ Division: _____



Prepared by: _____
Date: _____

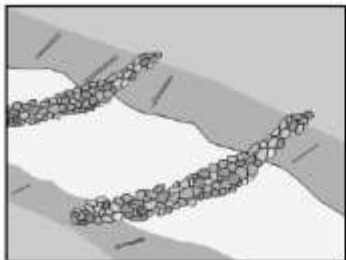


CCH Construction BMP Manual

- Information on selection, proper installation and maintenance of BMPs.
- Useful fact sheets that can be included in the SWPPP.
- Most recent version will always be available on the DFM-SWQ website:

http://www.honolulu.gov/rep/site/dfm/swq/library/BMP_manual_2011-11.pdf

Check Dams



Description and Purpose

A check dam is a small barrier constructed of rock, gravel bags, sandbags, fiber rolls, or reusable products, placed across a constructed swale or drainage ditch. Check dams reduce the effective slope of the channel, thereby reducing the velocity of flowing water, allowing sediment to settle and reducing erosion.

Suitable Applications

Check dams may be appropriate in the following situations:

- To promote sedimentation behind the dam;
- To prevent erosion by reducing the velocity of channel flow in small intermittent channels and temporary swales;
- In small open channels that drain 10 acres or less;
- In steep channels where storm water runoff velocities exceed 5 ft/s;
- During the establishment of grass linings in drainage ditches or channels; and
- In temporary ditches where the short length of service does not warrant establishment of erosion-resistant linings.

Limitations

- Not to be used in live streams or in channels with extended base flows.
- Not appropriate in channels that drain areas greater than 10 acres.

SE-4

Objective:

- EC – Erosion Control ▲
- SE – Sediment Control ✓
- TR – Tracking Control
- WE – Wind Erosion Control
- NS – Non-Storm Water Management Control
- WM – Waste Management & Materials Pollution Control

Legend:

- ✓ Primary Objective
- ▲ Secondary Objective

Targeted Constituents	
Sediment	✓
Nutrients	
Toxic	
Metals	
Bacteria	
Oil and Grease	
Organics	

Potential Alternative	
SE-3 Fiber Rolls	
SE-6 Gravel Bag Barricade	
SE-8 Sandbag Barrier	

November 2011
- SE-27 -
CCH Construction BMP



CIP Plan Review Checklist

- Requirement of MS4 permit.
- To aid review projects for CCH erosion and sediment control requirements including additional permits that are required.
- Documents compliance with permit verification requirements.

EROSION AND SEDIMENT CONTROL PLAN (ESCP) REVIEW CHECKLIST
Public Projects

The applicant should submit this checklist with Construction Plans. The City will use this checklist to review the ESCP. Not all items are necessary and the size/scope of each project should be considered when using this checklist and applying BMPs. However, an ESCP must identify the activities and measures to be undertaken to eliminate, minimize, or mitigate pollutants that are reasonably expected to be present during the course of each project.

Project Name: _____
 Project No.: _____ Contractor: _____
 Prepared By: _____ Submitted By: _____
 Date: _____
 Project Category: ☐ 1-Exempt (Minimum BMP Checklist) ☐ 1-Non-Exempt (ESCP) ☐ 2 (ESCP)
☐ 3 (ESCP) ☐ 4 (ESCP) ☐ 5 (ESCP)

1.0 MINIMUM BMP CHECKLIST				
A Minimum BMP Checklist shall be prepared for Category 1-Exempt Projects.	Yes	No	NA	City Verified?
1.1 Minimum BMP Checklist	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.0 PERMITS				
The following permits may apply to Category 1-Non-Exempt, 2, 3, 4 and 5 projects and may affect the ESCP. Please indicate which permits apply to the project and fill out the date that the permit was acquired. If multiple permits are required for the project, ensure that BMPs are consistent for all permits.				
2.1 NGPC for Storm Water Associated with Construction Activities (NPDES Form C)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Permit Acquired
2.2 NGPC for Discharge of Hydrotesting Waters (NPDES Form F)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.3 NGPC for Construction Activity Dewatering Effluent (NPDES Form G)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.4 Individual NPDES Permit?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.5 Section 401 Water Quality Certification (WQC)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.6 Section 404 Department of the Army (DA) Permit?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.7 Coastal Zone Management (CZM) Permit?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.8 Special Management Area (SMA) Permit?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.9 Stream Channel Alteration Permit (SCAP)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.10 City and County Grading Permit?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.11 City and County Clearing and Grading Permit?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.12 (DCAB)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.13 (SHRD)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.0 EROSION AND SEDIMENT CONTROL PLAN (ESCP)				
An ESCP shall be prepared for all Category 1-Non-Exempt, 2, 3, 4, and 5 projects. The size, scope, and type of project should be taken into account when using this checklist. The following sections are guidelines for the preparation and review of BMP plans for any type of project.				
3.1 Existing and Proposed Site Features				
The following site features should be included on the plans, if deemed necessary based on project type, size, and scope:				
3.1.1 Existing and proposed topography and features	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	City Verified?
3.1.2 Limits of disturbance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.1.3 Location of existing and proposed roads, curbs, gutters, storm drains	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

ESCP Review Checklist - CCH rev. 10/26/15 Page 1 of 3



Thank you!

